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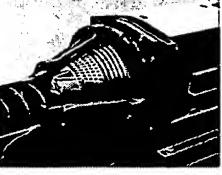
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Dispersion and refining > Heating alternatives > Refining



Dispersion and refining

Modern dispersion treatment aims at improving the end-product quality, appearance and printability through the disintegration of ink and other contaminants. The increase in pulp strength and the reconditioning of old, recycled fibers can upgrade pulp for more demanding applications.

The advanced Optifiner dispersion line concept is applicable for all recycled fibers. The heart of the process is the Optifiner Disperger equipped with large conical fillings. For thickening and dewatering, Metso Paper can offer alternative solutions to meet the demands of the process solution.

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As well as the paper machine , **Metso** also supplied a new DIP plant as part of the ...

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In addition, **Metso**'s delivery to Yueyang Paper included a deinking ... built around **OptiFiner** low-consistency refiners and ...

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Palm contracted **Metso** Paper to supply the No . 6 paper machine a HI - Preheater , and the world's - biggest **OptiFiner** conical disperger

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The heart of the process is the OptiFiner Disperger equipped with large conical fillings. For thickening and dewatering, Metso Paper can offer alternative ...

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OptiFiner™ Dispersion for Recycled Fibers

Modern dispersion treatment offers several benefits for production of paper and board based on recycled fiber. Although the main focus is still on the improvement of the end-product quality, appearance and printability through the dispersion of ink and other contaminants, there are additional benefits. The increase in pulp strength and reconditioning of old, recycled fibers can upgrade pulp for more demanding applications than previously.

Efficient dispersion improves paper and board machine runnability due to a stronger web resulting from increased fiber bonding. Improved

fiber formation for homogeneous pulp and a clean, sticky-free machine. The high temperature in dispersion also reduces bacteria content in the pulp, resulting in improved end-product hygiene and less microorganism problems in millwater circulation.

Accordingly, modern dispersion processes ensure the desired high level of cleanliness and improve strength and optimal uniformity of all end-product grades.

The key elements of OptiFiner Dispersion

Metro Paper offers an enhanced dispersion line concept for all recycled fiber applications. The line includes innovative developments as well as the application of proven, tried-and-tested technologies within all OptiFiner Processors. Metro provides the foundation for the process and key equipment combinations.

The heart of the dispersion process is the OptiFiner Dispenser. The processing of pulp and dispersed chemicals is performed in a large contact disk which is based on the technology developed in Japan. Metro Paper's know-how and experience in this unique OptiFiner system has been developed over many years. However, even after so many years of experience, we have never discontinued our efforts to constantly develop and improve this unique OptiFiner system.

Talked about earlier with the Hi-Heater or the OptiFiner system uniform and good reduction of pulp for different demands. A OptiFiner disperses chemicals smooth pulp flow to the heater and prevents pressure and steam lines.

Large conical area means a high number of teeth for processing, resulting in a higher number of impacts for each pulp content.

Conical form provides for large processing area and extended treatment time.

Conical form provides for large processing area and reduced treatment time.

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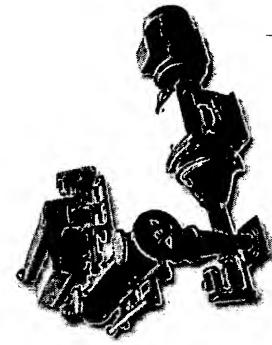
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Heating concepts

Hi-Heater -High-intensity heating for highly contaminated furnishes

The Hi-Heater has several unique design features to ensure efficient and economical heating of all pulp, dilution water and recycled furnish particles and stabilization of the heat in the dispense. In selected applications, Hi-Heater acts as an efficient cleaning device and pre-heater.

Key features

- Improved heat transfer
- Special heat tubes
- High radiation heat
- Atmospheric and pressurized operation

CT-Heater -Vertical heating for less demanding contaminants

CT-Heater is designed for light but efficient heating of pulp. CT-Heater provides low investment costs along with compact size and low operating costs.

Key features

- Compact design
- Steam header
- No moving parts, no wear parts

Dispenser fillings

OptiFiner Dispenser filling can be purchased for every application and provide a large area for effective dispersion treatment.

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Hi-Heater -High-intensity heating for highly contaminated furnishes

Metro Paper offers optimized heating concepts for each raw material and applicators containing different amounts of contaminants particularlynickels.

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Benefits to be gained with OptiFiner Dispersion solutions

- High dispersion efficiency for all types of ink
- Excellent treatment of hotmelts, stickies and other contaminants
- Significant improvement of pulp strength and fiber properties
- Variability and efficient mixing for optimal bleaching
- Wide range of treatment intensities, power inputs and temperatures
 - Heating alternatives
 - Filling pattern options
 - Atmospheric/ pressurized operation
- Flexible inlet and outlet designs facilitate easy process link-up for each application



Metso Paper Technology Center, Anjalankoski, Finland
offers OptiFiner dispersion for customer trials.

Technical Data

OptiFiner Disperger	HI-Heater	CT-Heater	DPL-Plugscrew
OFD-50	HI-0523	CT-309	DPL-210
OFD-100	HI-1050	CT-815	DPL-420
OFD-150	HI-1075	CT-1018	DPL-525
OFD-250	HI-1275	CT-1220	DPL-630

The contaminant dispersion with compatible properties
for the fiber processing and bleaching of ONP, OMG,
OCC, MOW and mix furnishes.

- Capacity rate 10 – 1000 tpd
- Rated power / Disperger 100 – 3500 kW
- Temperature range 80 – 120°C
- Pressure 0 – 100 kPa
- Discharge consistency 4 – 10 %/30 %

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